

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/890,684B

Source: PCT

Date Processed by STIC: 4-11-05

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,684B

DATE: 04/11/2005

TIME: 13:57:22

Input Set : N:\FATIMA\09890684.txt

Output Set: N:\CRF4\04112005\I890684B.raw

3 <110> APPLICANT: Bullerdiel, Jorn

5 <120> TITLE OF INVENTION: Preparation for the Prevention and/or Treatment of a Tissue

Change of

6 Mesenchymal Origin

W--> 7 <130> FILE REFERENCE: BOH6278P0010US

9 <140> CURRENT APPLICATION NUMBER: 09/890,684B

10 <141> CURRENT FILING DATE: 2001-08-03

12 <150> PRIOR APPLICATION NUMBER: PCT/DE00/00364

13 <151> PRIOR FILING DATE: 2000-02-04

15 <160> NUMBER OF SEQ ID NOS: 47

17 <170> SOFTWARE: PatentIn version 3.1

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 19

21 <212> TYPE: DNA

22 <213> ORGANISM: Artificial

24 <220> FEATURE:

25 <221> NAME/KEY: misc_feature

26 <223> OTHER INFORMATION: primer HsgA1

29 <400> SEQUENCE: 1

30 aaggtgtcaa tyatgtttg

33 <210> SEQ ID NO: 2

34 <211> LENGTH: 14

35 <212> TYPE: DNA

36 <213> ORGANISM: Artificial

38 <220> FEATURE:

39 <221> NAME/KEY: misc_feature

40 <223> OTHER INFORMATION: primer HsgA2

43 <400> SEQUENCE: 2

44 acggttactt kttt

47 <210> SEQ ID NO: 3

48 <211> LENGTH: 18

49 <212> TYPE: DNA

50 <213> ORGANISM: Artificial

52 <220> FEATURE:

53 <221> NAME/KEY: misc_feature

54 <223> OTHER INFORMATION: primer HsgB1

57 <400> SEQUENCE: 3

58 tctattccct acctggat

61 <210> SEQ ID NO: 4

62 <211> LENGTH: 17

63 <212> TYPE: DNA

64 <213> ORGANISM: Artificial

66 <220> FEATURE:

67 <221> NAME/KEY: misc_feature

(pg.6)

19

14

18

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,684B

DATE: 04/11/2005

TIME: 13:57:22

Input Set : N:\FATIMA\09890684.txt

Output Set: N:\CRF4\04112005\I890684B.raw

68 <223> OTHER INFORMATION: primer HsgB2
71 <400> SEQUENCE: 4
72 actcttaacg gcagtag 17
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 32
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <223> OTHER INFORMATION: ADE1Bgl2S
85 <400> SEQUENCE: 5
86 gaagatcttt atagatggaa tggcgccaac at 32
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 31
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <223> OTHER INFORMATION: primer ADE1Hi3AS
99 <400> SEQUENCE: 6
100 cccaagctta aaactcttct cgetggcagt c 31
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 17
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial
108 <220> FEATURE:
109 <221> NAME/KEY: misc_feature
110 <223> OTHER INFORMATION: primer HsgC1
113 <400> SEQUENCE: 7
114 acctttgact cttctgt 17
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 17
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <223> OTHER INFORMATION: primer HsgC2
127 <400> SEQUENCE: 8
128 tccttgatt tagtattc 17
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 18
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial
136 <220> FEATURE:
137 <221> NAME/KEY: misc_feature
138 <223> OTHER INFORMATION: primer HsgD1
141 <400> SEQUENCE: 9
142 ccatcatgtt cgactcct 18
145 <210> SEQ ID NO: 10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,684B

DATE: 04/11/2005

TIME: 13:57:22

Input Set : N:\FATIMA\09890684.txt

Output Set: N:\CRF4\04112005\I890684B.raw

146 <211> LENGTH: 17
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <223> OTHER INFORMATION: primer HsgD2
155 <400> SEQUENCE: 10
156 aggtagccgg tgaagcc 17
159 <210> SEQ ID NO: 11
160 <211> LENGTH: 18
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <223> OTHER INFORMATION: HsgE1
169 <400> SEQUENCE: 11
170 gactcttccg tcagctgg 18
173 <210> SEQ ID NO: 12
174 <211> LENGTH: 17
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial
178 <220> FEATURE:
179 <221> NAME/KEY: misc_feature
180 <223> OTHER INFORMATION: primer HsgE2
183 <400> SEQUENCE: 12
184 gctggtaacg gcgctct 17
187 <210> SEQ ID NO: 13
188 <211> LENGTH: 17
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <221> NAME/KEY: misc_feature
194 <223> OTHER INFORMATION: primer HsgF1
197 <400> SEQUENCE: 13
198 atttctattc cttegcg 17
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 17
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <223> OTHER INFORMATION: primer HsgF2
211 <400> SEQUENCE: 14
212 tcaggcttgg tacggcc 17
215 <210> SEQ ID NO: 15
216 <211> LENGTH: 430
217 <212> TYPE: DNA
218 <213> ORGANISM: Adenovirus
220 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,684B

DATE: 04/11/2005

TIME: 13:57:22

Input Set : N:\FATIMA\09890684.txt

Output Set: N:\CRF4\04112005\I890684B.raw

```
221 <221> NAME/KEY: misc_feature
222 <223> OTHER INFORMATION: isolate X765551Ko
225 <400> SEQUENCE: 15
226 ggcacctttt accttaacca cactttcaag aaggtctcca tcatgtttga ctctcagtc      60
228 agctggcctg gcaatgacag gctgttgagc ccaaagtagt ttgaaatcaa gcgcactgtg      120
230 gacggggaag ggtacaatgt ggcccaatgt aacatgacca aagactgggt cctggttcag      180
232 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat      240
234 cgcattgtact cctttttcag aaacttccag cctatgagca ggcaggtggg tgatgaggtt      300
236 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta      360
238 ggggtatctt cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg      420
240 ctcacgggaa
243 <210> SEQ ID NO: 16
244 <211> LENGTH: 430
245 <212> TYPE: DNA
246 <213> ORGANISM: Adenovirus
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <223> OTHER INFORMATION: isolate M2-3s
253 <400> SEQUENCE: 16
254 ggcacctttt accttaacca cactttcaag aaggtctcca tcatgtttga ctctcagtc      60
256 agctggcctg gcaatgacag gctgttgagc ccaaagtagt ttgaaatcaa gcgcactgtg      120
258 gacggggaag ggtacaatgt ggcccaatgt aacatgacca aagactgggt cctggttcag      180
260 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat      240
262 cgcattgtact cctttttcag aaacttccag cctatgagca ggcaggtggg tgatgaggtt      300
264 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta      360
266 ggggtatctt cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg      420
268 ctcacgggaa
271 <210> SEQ ID NO: 17
272 <211> LENGTH: 430
273 <212> TYPE: DNA
274 <213> ORGANISM: Adenovirus
276 <220> FEATURE:
277 <221> NAME/KEY: misc_feature
278 <223> OTHER INFORMATION: isolate M7-1s
281 <400> SEQUENCE: 17
282 ggcacctttt accttaacca cactttcaag aaggtctcca tcatgtttga ctctcagtc      60
284 agctggcctg gcaatgacag gctgttgagc ccaaagtagt ttgaaatcaa gcgcactgtg      120
286 gacggggaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagttcag      180
288 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat      240
290 cgcattgtact cttttttcag aaacttccag cctatgagca ggcaggtggg tgatgaggtt      300
292 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta      360
294 ggggtacctt cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg      420
296 ctcacgggaa
299 <210> SEQ ID NO: 18
300 <211> LENGTH: 430
301 <212> TYPE: DNA
302 <213> ORGANISM: Adenovirus
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,684B

DATE: 04/11/2005

TIME: 13:57:22

Input Set : N:\FATIMA\09890684.txt

Output Set: N:\CRF4\04112005\I890684B.raw

```

306 <223> OTHER INFORMATION: isolate M8-2s
309 <400> SEQUENCE: 18
310 ggcaccttct accttaacca cactttcaag aaggctctcca tcatgtttga ctccctcagtc      60
312 agctggcctg gcaatgacag gctgttgagc ccaaagtgagt ttgaaatcaa gcgcactgtg      120
314 gacggggaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagtccag      180
316 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat      240
318 cgcattgtact cttttttcag aaacttccag cctacgagca ggcagggtgg tcatgaggtt      300
320 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta      360
322 ggggtaccttg cacctactat gagacaaggg gaaccttacc cggccaatta tccatacccg      420
324 ctcatcgga
327 <210> SEQ ID NO: 19
328 <211> LENGTH: 143
329 <212> TYPE: PRT
330 <213> ORGANISM: Adenovirus: isolate X765551Ko
332 <400> SEQUENCE: 19
333 Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
334   1           5           10           15
336 Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
337   20           25           30
339 Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
340   35           40           45
342 Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
343   50           55           60
345 Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
346   65           70           75           80
348 Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
349   85           90           95
351 Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
352   100          105          110
354 Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
355   115          120          125
357 Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
358   130          135          140
361 <210> SEQ ID NO: 20
362 <211> LENGTH: 143
363 <212> TYPE: PRT
364 <213> ORGANISM: Adenovirus: isolate M2-3s
366 <400> SEQUENCE: 20
367 Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
368   1           5           10           15
370 Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
371   20           25           30
373 Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
374   35           40           45
376 Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
377   50           55           60
379 Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
380   65           70           75           80
382 Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/890,684B

DATE: 04/11/2005
TIME: 13:57:23

Input Set : N:\FATIMA\09890684.txt
Output Set: N:\CRF4\04112005\I890684B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:28; N Pos. 147,148,222,299

Seq#:32; Xaa Pos. 49,50,74,100

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/890,684B

DATE: 04/11/2005

TIME: 13:57:23

Input Set : N:\FATIMA\09890684.txt

Output Set: N:\CRF4\04112005\I890684B.raw

L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120
M:341 Repeated in SeqNo=28
L:797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:48
M:341 Repeated in SeqNo=32

*** RX REPORT ***

RECEPTION OK

TX/RX NO	8290
RECIPIENT ADDRESS	703 308 4221
DESTINATION ID	
ST. TIME	04/11 14:39
TIME USE	02'34
PGS.	9
RESULT	OK

RECEIVED

United States Patent and Trademark
Scientific and Technical Information Center
Biotechnology Systems Branch

11 APR 2005

Legal Staff
International Division

FAX TRANSMISSION COVER SHEET

DATE: 4-11-05

Total Number of Pages Faxed: 9

TO:

NAME: MR. RICHARD ROSS

ORG.: PCT LEGAL

FAX NUMBER: 571-273-0459

FROM: Mark Spencer

Voice Ph. Number: (571)272-2510

FAX Ph. Number: (571)273-0221

Message:

09/890684 B